Menlo Park Notebook #135 [N-80-07-30]

This notebook covers the period July-August 1880. It was used by Edison to record notes and drawings relating to lamps, dynamos, meters, voltage regulators, and the electric railroad. There are also notes on electric railroad patents issued to other inventors. The label on the front cover is marked "Private Patent Book" and "T A Edison." The book contains 276 numbered pages.

Blank pages not filmed: 20-51, 78-276.

Missing page numbers: 75-76.

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From Library
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44 Broad St. N.Y.

May 1, 1896

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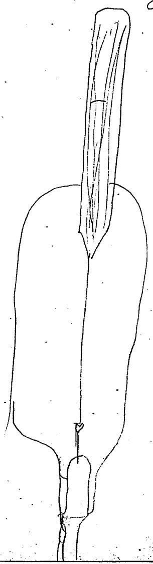
777 Broad St. NEWARK, N.J.

July 30 1880-

TAE



Self feeding Lamp
incandescent.

July 20 1880 TAE

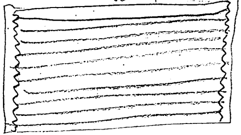
Want to claim Mica as seperator in Commutator =

Show full working drawings of Commutator =

Prepare Rowlands patent,

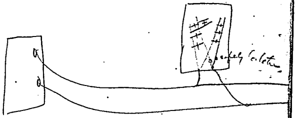
Carbon clamps— H Carbzd

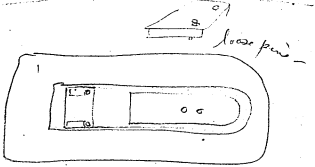
Carbonized as a whole after bending then break off =

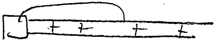


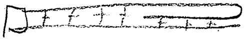
July 31 1880
TAE
Chas Batchelor

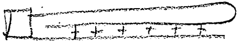
Berlin Porcelain ware for flasks - say same as Combustion tubes = for Carbonizing:

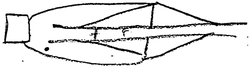

safety catch

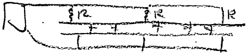








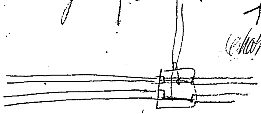


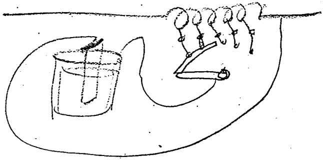

R
R
R

July 31 1880

TAE

Chas Batchelor





adjustable Meter

Twenty

Francisco

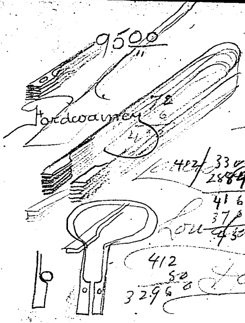
Francisco

Francisco San Franc

Francisco

San Francisco

9500



Fardwainer

July 31 1880

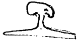
412 / 33000 / 70
2884 / 80
4160
3708
4372

Lou

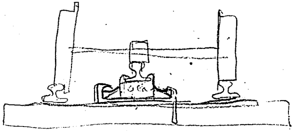
412
50
3296

Forgaille

Electric R.R. Aug 3. 1880
TAE
Paint the whole of the Rail with an insulating paint (all except top) -

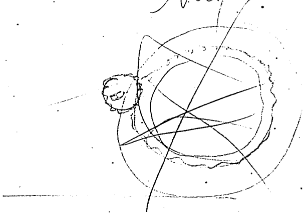


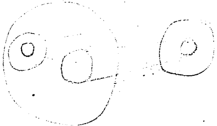
this for street RRs painted under .a.



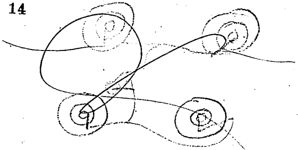
put this in

Aug 3. 1880

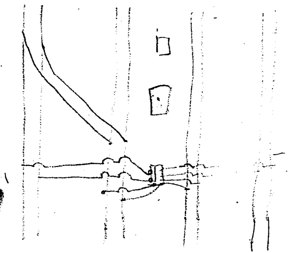




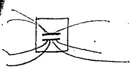
put this =



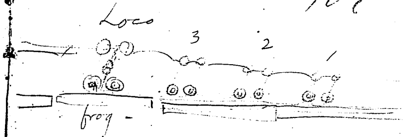
Aug 3 1880
TAE



Patent this,



Aug 3 1880
TAE



patent,

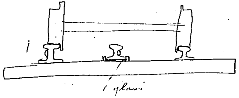
In Reversing Motion Car
Reverse field magnet
Mention of not already shown
auxilliary Coil in field

Mention, that train can be
braked by opening ckt to
Bobbin & short ckg it
~~Also that in~~ or it may
be reversed while in
circuit thus acting as a
brake, or its current.
(12) Current due to the rotation
of the bobbin by the train
after disconnection with
the track may be thrown
through the brake magnets
in the Cars =

Aug 3rd 1880
TAE

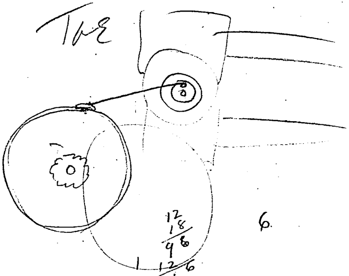
~~Patent~~
Show Hornigs new design

Aug 3 1880
TAE



Aug. 5. T. A. Edison

TPE


12
18
96
1
12
6
21

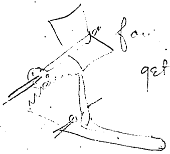
6.

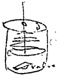
8

9.

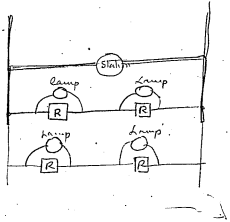
18.

Means for getting a slow movement to mechanism.

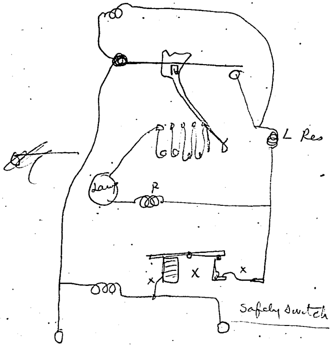

fan
get reference


coiled spring
valve air to get slow movement

Constructs Rheostats of ribbon to
Expose great surface prevent heating
find reference =


Station
lamp
Lamp
R
R
Lamp
Lamp
R
R

States that fracturing carbon due to sudden changes temperature Sudden heating disrupts - This due to Nitrogen gas absorbed by Carbon suddenly Expanding by heat —

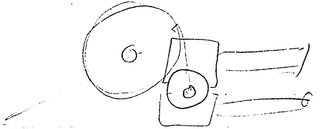

L Res
Lamp
R
X
x
x
Safety Switch

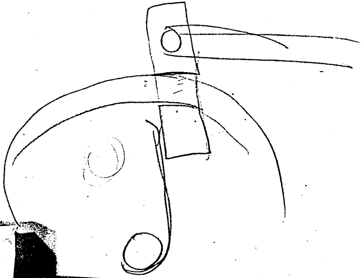
abnormal flow Current causes attraction magnet, & opening of magnet circuit - X. find in Shaffner under head Lighting arresters,

OVE

Over speaks of interposing in conductor a section of Conductor more readily fused than the Conductors constituting the rest of the circuit. so that when there is ~~too~~ much current it will instantly melt & destroy Continuity of the circuit.

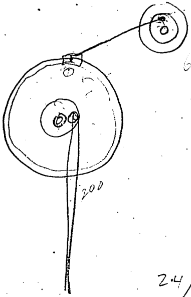
Say that current through Lamp begins to heat Carbon which rapidly acquires resistance & the resistance of the Carbon increases in proportion to the movement of the lever D over the contact points M until all the 5 Res O of 2 ohms each have been cut out of circuit. he infers that just as you cut out R that the carbon increases its R — hence the change does not effect the total Res





60

300
60
18000



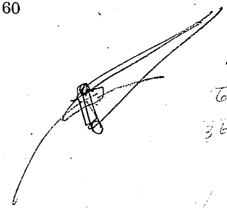
.500

4 24.

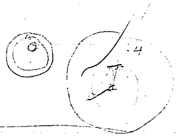
12.

24)600(25.
48
120
120

4



12
50
600 60
36000



12/ 600 (50
60

6.

12
50

12
50
600

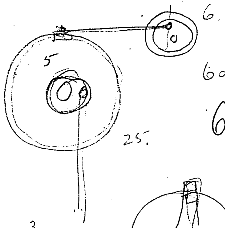
60

6

12

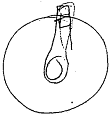
15
50
750 60
45000

9.



600

6 foot + 3 foot
6 do. [illegible]



6.

18.
50
9 0 60
[illegible] 00

6

300.

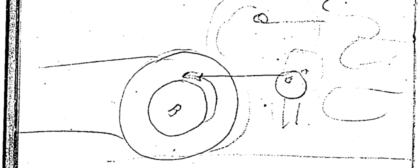
9
30
[illegible] 0

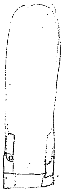
20

10.

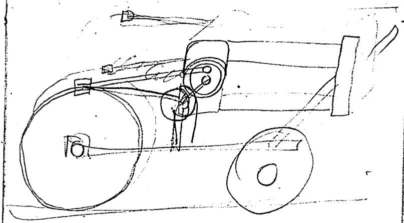
10
20

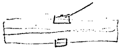
Aug 3 1880
TAE



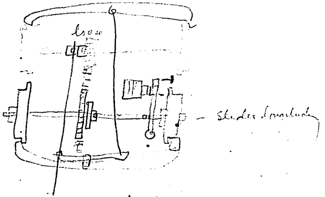


Aug 3 1880
TAE





Olmsteads E brake


base
slides longitudinally

61089 dated

Jany 8 1867

his patent 1869 — April 27 —

Pat 98880 Jan 18 1870

substitutes friction rolls for

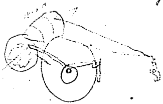
gears

also 89495 — Apl 27 69

Nothing [illegible]
in either

Friction Brake

No 59 805
Nov 20 1866

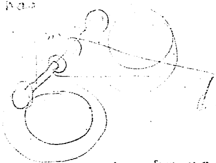


claims nothing but clutch,

has patent. 49 842

one Jany 15 1874 - 151 335.

has



when mag closes swings a pawl in on shaft of car wheel that does the winding

---

H S Daggett.
No 116 818, July 11 1871

lever brakes ~~tight~~ has Chains on Extra shaft which is rotated by a belt from main axles but it cannot wind up chain as it (the belt) slips but the [illegible] axles is drawn outwardly by a magnet thus tightening the belt & the shaft rotating winds up the chains —

Geo En-Earl. 139557.

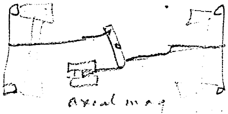
1873 =

Electromotor, Drain

Axles do not magnet

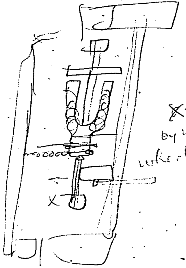
[illegible] —

P. V. Cornovan 175 935 April 11 1876



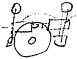
Whipple 22213. Nov 30 1858.

no spec



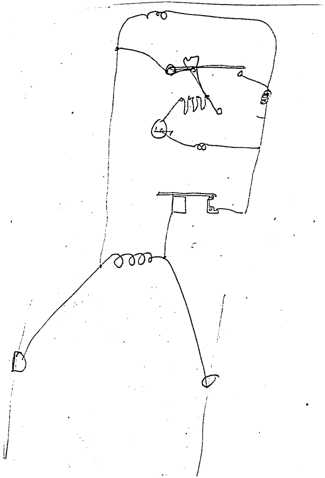
X. Shaft rotated
by main axles by wheel
wheel (mag closed causes do
, rotation winds up
chain -

Carpenter 19 Jan 1858.



N.G

```
  2240
     6
 13440
   500
 139.40
```

[ITEM FOUND IN BOOK]